

Research, development, and simulation of a product lid opening and closing process control system via C# interface using PLC Fx3U

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Abstract: This topic focuses on researching, designing, and implementing an automatic control system for the product cap opening and closing process. The project includes building a C# user interface that interacts with the Fx3U PLC to achieve precise and efficient control of the product cap opening and closing process. The research method combines theory and experimentation to ensure system reliability. The expected outcome of this topic is an effective automation solution for the production process, improving quality and minimizing risks during the product cap opening and closing process.

Keywords: Control system, PLC Fx3U, C# Interface, Automation, Applied Research